AEECHARIE A

FOR ATAR 00/8

Compiled By Daniel V. Horn II

© 1982



A Division of Scott Adams, Inc.

Box 3435 • Longwood, FL 32750

Atari is a Trade Mark of Atari, a Warner Communications Company

ERROR CODES

- 2 **MEMORY INSUFFICIENT**
- 3 VALUE ERROR
- 4 TOO MANY VARIABLES
- 5 STRING LENGTH ERROR
- 6 **OUT OF DATA**
- 7 **NUMBER GREATER THAN 32767**
- **INPUT STATEMENT ERROR** 8
- 9 ARRAY OR STRING DIM ERROR
- 10 ARGUMENT STACK OVERFLOW
- 11 FLOATING POINT OVER/UNDER FLOW
- 12 LINE NOT FOUND
- 13 NO MATCHING FOR STATEMENT
- 14 LINE TOO LONG
- 15 GOSUB OR FOR LINE DELETED
- 16 RETURN WITHOUT GOSUB
- 17 GARBAGE ERROR
- 18 INVALID STRING CHARACTER
- 19 LOAD PROGRAM TOO LONG
- 20 **DEVICE NUMBER ERROR**
- 21 LOAD FILE ERROR
- 128 BREAK ABORT
- 129 IOCB ERROR
- 130 NON-EXISTENT DEVICE
- 131 IOCB WRITE ONLY
- 132 INVALID COMMAND
- 133 DEVICE OR FILE NOT OPEN
- 134 BAD IOCB NUMBER
- 135 IOCB READ ONLY
- 136 EOF REACHED
- 137 TRUNCATED RECORD
- 138 DEVICE TIMEOUT
- 139 DEVICE NAK ERROR
- 140 SERIAL BUS ERROR
- 141 CURSOR OUT OF RANGE
- 142 SERIAL BUS DATA FRAME OVERRUN
- 143 SERIAL BUS DATA FRAME CHECKSUM 144 DEVICE TIME (WRITE PROTECTED)
- 145 READ AFTER WRITE COMPARE ERROR
- 146 FUNCTION NOT IMPLEMENTED
- 147 INSUFFICIENT RAM
- 160 DRIVE NUMBER ERROR
- 161 TOO MANY FILES OPEN
- 162 DISK FULL
- 163 UNRECOVERABLE SYSTEM DATA I/O
- 164 FILE NUMBER MISMATCH
- 165 FILE NAME ERROR
- 166 POINT DATA LENGTH ERROR
- 167 FILE LOCKED
- 168 COMMAND INVALID
- 169 DIRECTORY FULL
- 170 FILE NOT FOUND
- 171 POINT INVALID

EDITOR ASSEMBLER CARTRIDGE ERRORS:

- 1 Memory insufficient for application
- 2 Values for DEL command illegal
- 3 (Mini Assembler) address error
- 4 File cannot be loaded
- 5 Undefined label reference
- 6 Syntax error

INX

INY

JMP

JSR

- 7 Duplicate label
- 8 Buffer overflow
- 9 Not label or * before =
- 10 One byte value greater than 255
- 11 Invalid null string usage

ASSEMBLER MNEMONICS

ADC	Add Memory to Accumulator with Carry
AND	AND Accumulator with Memory
ASL	Shift Left (Accumulator or Memory)
BCC	Branch if Carry Clear
BCS	Branch if Carry Set
BEG	Branch if Result = Zero
BIT	Test Memory against Accumulator
BMI	Branch if Minus Result
BNE	Branch if Result ≠ Zero
BPL	Branch on Plus Result
BRK	Break
BVC	Branch if V Flag Clear
BVS	Branch if V Flag Set
CLC	Clear Carry Flag
CLD	Clear Decimal Made Flag
CLI	Clear Interrupt Disable Flor (Franks
OL.	Clear Interrupt Disable Flag (Enable Interrupt)
CLV	Clear V Flag
CMP	Compare Accumulator and Memory
CPX	Compare Register X and Memory
CPY	Compare Register Y and Memory
DEC	Decrement Memory
DEX	Decrement Register X
DEY	Decrement Register Y
ECR	Exclusive OR Accumulator with
	Men'ory
INC	Increment Memory
	morement wemory

Increment Register X

Increment Register Y

Jump to Subroutine

Jump to New Location

12 Illegal address or address type
 13 Phase error: Pass 1 results different from Pass 2
 14 Undefined forward reference

15 Line too long

TSX

TXA

TXS

TYA

16 Illegal source statement

17 Line number too large

18 LOMEM command used after other command usage

19 No starting address (origin)

LDA Load Accumulator LDX Load Register X LDY Load Register Y LSR Shift Right (Accumulator or Memory) NOP No Operation ORA Or Accumulator with Memory PHA Push Accumulator on Stack PHP Push Processor Status Register (P) onto Stack Pull Accumulator from Stack PLA PLP Pull Processor Status Register (P) from Stack Rotate Left (Accumulator or Memory) ROL ROR Rotate Right (Accumulator or Memory) RTI Return from Interrupt RTS Return from Subroutine SBC Subtract Memory from Accumulator with Borrow SEC Set Carry Flag SED Set Decimal Mode Flag SEL Set Interrupt Disable Flag (Disable Interrupt) STA Store Accumulator STX Store Register X STY Store Register Y TAX Transfer Accumulator to Register X TAY Transfer Accumulator to Register Y

Transfer Register SP to Register X

Transfer Register X to Register SP

Transfer Register X to Accumulator

Transfer Register Y to Accumulator

ABBREVIATIONS

RESERVED WORD.

ABBREVIATED WORD

WORD.	WORD
BYE	В.
CLOAD	CLOA.
CLOSE	CL.
COLOR	C.
CONT	CON.
DATA	
	D.
	DE.
DIM	DI.
	DO.
DRAWTO	DR.
ENTER	E.
FOR	F.
GET	GE.
GOSUB	GOS.
GOTO	G.
GRAPHICS	GR.
INPUT	1.
LET	LE.
LIST	L
LOAD	LO.
LOCATE	LOC.
LPRINT	LP.
NEXT	N.
NOTE	NO.
OPEN	0.
PLOT	PL.
POINT	P
POKE	POK.
POSITION	POS.
PRINT	PR. or ?
PUT	PU.
	REA.
READ	
	R. or .(space)
	RES.
RETURN	RET.
	RU.
SAVE	S.
SETCOLOR	SE.
SOUND	SO.
STATUS	ST.
STOP	STO.
TRAP	Т.
VIO	V

EXTENDERS EXTENDER MEANING

.SYS .					SYSTEM FILE
.BAS					BASIC FILE
.DAT					DATA FILE
.MUS					MUSIC FILE

XIO

ASSEMBLY LANGUAGE FILE .ASM

.OBJ **BINARY LOAD FILE** SOURCE FILE .CMD LOAD AND GO FILE

.LST LIST FILE .SAV SAVE FILE

XIO COMMANDS -

XIO COMMAND, #IOCB, AUX1, AUX2, FILESPEC

COMMAND	OPERATION
3	OPEN
5	GET RECORD
7	GET CHARACTER
9	PUT RECORD
11	PUT CHARACTER
12.	CLOSE
13	STATUS REQUEST
32	RENAME
33	DELETE
35	LOCK FILE
00	LINIL OCK EILE

	OTT TO THE TOTAL OF THE TOTAL O				
#IOCB = Channel Number					
AUX1	OPERATION				
4	INPUT				
6	DISK DIRECTORY				
8	OUTPUT EOF APPEND				
12	INPUT/OUTPUT				
12	INFOT/OUTFOT				
AUX2	OPERATION				
83	820 SIDEWAYS				
FILESPEC	OPERATION				
"D:"	DISK				
"C:"	CASSETTE				
"P:"	PRINTER				
"S:"	SCREEN				
"E:"	GRAPHIC SCREEN				
"R:"	RS232-PORT				

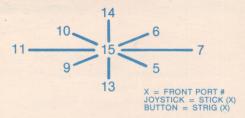
WILD CARD USAGE -

	MENU OPTION	ALLOWED
A.	DISK DIRECTORY	YES
B.	RUN CARTRIDGE	NO
C.	COPY FILE	YES
D.	DELETE FILE	YES
E.	RENAME FILE	YES
F.	LOCK FILE	YES
G.	UNLOCK FILE	YES
Н.	WRITE DOS FILE	NO
1.	FORMAT DISK	NO
J.	DUPLICATE DISK	NO
K.	BINARY SAVE	NO
L.	BINARY LOAD	NO
M.	RUN AT ADDRESS	NO
N.	CREATE MEM.SAV	NO

DUPLICATE FILE YES

0.

JOYSTICK CONTROL



PADDLE CONTROL

Far right read = 1 Far left read = 228

PADDLE AND JOYSTICK BUTTON CONTROL

Both read a 0 (zero) if button is pushed.

X = FRONT PORT # PADDLE = PADDLE (X) TRIGGER = PTRIG (X)

COLOR NUMBERS

0 = GRAY 1 = LIGHT ORANGE

2 = ORANGE

3 = RED - ORANGE

4 = PINK

6 = PURPLE—BLUE 7 = BLUE

7 = BLUE8 = BLUE 9 = LIGHT BLUE

10 = TURQUOISE

11 = GREEN-BLUE

12 = GREEN

13 = YELLOW—GREEN 14 = ORANGE—GREEN

15 = LIGHT ORANGE

GRAPHIC MODE INFORMATION

+ (16) = FULL SCREEN

+ (32) = CLEAR SCREEN SURPRESS

MODE	SCREEN	HORZ
0	TEXT	40
1	TEXT	20
2	TEXT	20
3	GRAPHIC	40
4	GRAPHIC	80
5	GRAPHIC	80
6	GRAPHIC	160
7	GRAPHIC	160
8	GRAPHIC	320

MUSICAL PITCHES -

		The state of the s	
NOTE	PITCH	NOTE	PITCH
HIGH RANGE		F	91
C (HIGH C)	29	E	96
В	31	D# or Eb	102
A# or Bb	33	D	108
Α	35	C# or Db	114
G# or Ab	37	MID RANGE	
G	40	C (MIDDLE C)	121
F# or Gb	42	В	128
F	45	A# or Bb	136
E	47	Α	144
D# or E	50	G# or Ab	153
D	53	G	162
C# or Db	57	F# or Gb	173
C	60	F	182
В	64	LOW RANGE	
A# or B	68	E	193
A	72	D# or Eb	204
G# or Ab	76	D	217
G	81	C# or Db.	230
F# or Gb	85	C (LOW C)	243

VERT	VERT	#	RAM
SPLT	FULL	CLRS	REQ
N/A	24	2	993
20	24	5	513
10	12	5	261
20	24	4	273
40	48	2	537
40	48	4	1017
80	96	2	2025
80	96	4	3945
160	192	1/2	7900